

Applicant: Roesler
Serial No.: 10/798,099
Page 2 of 14

Atty Docket No. 61,733-143

IN THE CLAIMS:

What is claimed is:

1. (Currently Amended) An oven assembly for drying paint on a product transported by a conveyor, comprising:

a plurality of modules positioned in a generally abutting relationship, wherein each of said modules includes a roof, side walls, and a floor having a length and a width, said roof including roof panels spaced apart and fixedly attached between said side walls thereby supporting said side walls in a space relationship and relief panels disposed between said roof panels and being releasably retained to said roof panels thereby providing explosion relief to said assembly;

said floor formed from abutting floor panels reinforced by a plurality of support members spaced along said length of said floor and having a length greater than said width of said floor; and

roof panels of said roof spaced apart and fixedly attached between said side walls thereby supporting said side walls in a space relationship;

said side walls including an inner side wall panel disposed in an overlapping relationship with said floor and a side wall cladding panel supported by said support members along said width of said floor thereby concealing thermal insulating material disposed between said inner side wall panel and said side wall cladding panel. [[; and]]

relief panels disposed between said roof panels and being releasably retained to said roof panels thereby providing explosion relief to said assembly.

Applicant: Roesler
Serial No.: 10/798,099
Page 3 of 14

Atty Docket No. 61,733-143

2. (Previously Presented) An assembly as set forth in claim 1, wherein each said inner wall panel includes a flange extending outwardly therefrom at a generally 90 degree angle to define an enclosure and a thermal insulating material disposed therein.

3. (Original) An assembly as set forth in claim 1, further including a generally U-shaped channel extending along said length of said floor and supported by said support members for receiving said side wall cladding panel thereby retaining said side wall cladding panel to said assembly.

4. (Cancelled)

5. (Cancelled)

6. (Previously Presented) An assembly as set forth in claim 3, further including a radiant wall overlying said floor at a spaced location defining a heated air channel therebetween being fluidly connected to a source of heated air thereby heating said radiant floor.

7. (Original) An assembly as set forth in claim 1, further including air ducts affixed to at least one of said roof and said inner wall panel for providing air to said assembly.

8. (Original) An assembly as set forth in claim 1, further including a support member extending at least between said roof panels and providing an abutment surface for

Applicant: Roesler
Serial No.: 10/798,099
Page 4 of 14

Atty Docket No. 61,733-143

receiving said side wall cladding panels thereby retaining said side wall cladding panels to said assembly.

9. (Original) An assembly as set forth in claim 8, including roof cladding panels overlaying said roof at a spaced location thereby defining a space for receiving thermal insulating material.

10. (Original) An assembly as set forth in claim 1, wherein adjacent of said modules are adjoined by a flexible member thereby enabling said modules to expand and contract.

11. (Previously Presented) A method of manufacturing an oven assembly for drying paint on products transported on a conveyor, comprising the steps of:
assembling a floor from a plurality of insulating panels;
fixedly attaching inner wall panels to opposing sides of said floor;
fixedly attaching a roof to an opposite end of said inner side panels from said floor thereby defining module with a heating chamber within said floor, said inner wall panels, and said roof;
providing insulating material relative to said roof and said inner side wall panels and concealing said insulating material with cladding panels; and
removably attaching braces to at least two of said roof, said inner side wall panels, and said floor to transport said module to a remote location.

Applicant: Roesler
Serial No.: 10/798,099
Page 5 of 14

Atty Docket No. 61,733-143

12. (Original) The method as set forth in claim 11, further including the step of forming a first set of weld seams between said roof and said side walls and second set of weld seam between said side walls and said floor.

13. (Previously Presented) The method as set forth in claim 12, wherein said step of removably attaching braces is further defined by affixing said braces over said first set of seams and said second set of seams thereby securing said assembly for transportation to a remote location.

14. (Original) The method as set forth in claim 11, further including the step of providing support members at spaced locations beneath said floor thereby supporting said assembly.

15. (Original) The method as set forth in claim 11, further including the step of providing a clasp for receiving said side wall cladding panels thereby retaining said side wall cladding panels to said assembly.

16. (Original) The method as set forth in claim 15, further including the step of fixedly attaching said clasp to said support members.

17. (Original) The method as set forth in claim 11, further including the step of providing a radiant wall at a spaced location over said floor thereby forming a hot air conduit between said floor and said radiant wall thereby providing heat to said assembly.

Applicant: Roesler
Serial No.: 10/798,099
Page 6 of 14

Atty Docket No. 61,733-143

18. (Original) The method as set forth in claim 11, further including the step of providing an air duct for providing air to said assembly and affixing said air duct to one of said floor, said side walls, and said roof.

19. (Original) The method as set forth in claim 11, further including the step of transferring a plurality of modules to the remote location.

20. (Original) The method as set forth in claim 11, further including the step of adjoining adjacent of said modules with a flexible member thereby enabling said modules to expand and contract.

21. (Original) The method as set forth in claim 20, further including the step of removing said support from said module when said module has arrive at the remote location.

22. (Original) The method as set forth in claim 11, further including the step of installing a conveyor in said heating chamber for transferring products through said assembly.

23. (Previously Presented) An oven assembly for drying paint on a product transported by a conveyor, comprising:

a plurality of modules positioned in a generally abutting relationship, wherein each of said modules includes a roof, side walls, and a floor having a length and a width with said floor formed from abutting floor panels;

Applicant: Roesler
Serial No.: 10/798,099
Page 7 of 14

Atty Docket No. 61,733-143

a plurality of support members spaced along said length of said floor and having a length greater than said width of said floor with said support members reinforcing said floor;

an inner side wall panel of said side walls disposed in an overlapping relationship with said floor and a side wall cladding panel supported by said support members along said width of said floor thereby concealing thermal insulating material disposed between said inner side wall panel and said side wall cladding panel; and

an air circulation device affixed to at least one of said roof and said inner wall panel for circulating air in said oven assembly.

24. (Previously Presented) An assembly as set forth in claim 23, wherein said inner side wall panel includes a flange extending outwardly therefrom at a generally 90 degree angle to define an enclosure and a thermal insulating material disposed therein.

25. (Previously Presented) An assembly as set forth in claim 23, further including a generally U-shaped channel extending along said length of said floor and supported by said support members for receiving said side wall cladding panel thereby retaining said side wall cladding panel to said assembly.

26. (Previously Presented) An assembly as set forth in claim 23, wherein said roof includes roof panels spaced apart and fixedly attached between said side walls thereby supporting said side walls in a space relationship.

Applicant: Roesler
Serial No.: 10/798,099
Page 8 of 14

Atty Docket No. 61,733-143

27. (Previously Presented) An assembly as set forth in claim 23, further including relief panels disposed between said roof panels and being releasably retained to said roof panels thereby providing explosion relief to said assembly.

28. (Previously Presented) An assembly as set forth in claim 23, further including a radiant wall overlying said floor at a spaced location defining a heated air channel therebetween being fluidly connected to a source of heated air thereby heating said radiant floor.

29. (Previously Presented) An assembly as set forth in claim 23, wherein said air circulating device is further defined air ducts affixed to at least one of said roof and said inner wall panel for providing air to said oven assembly.

30. (Previously Presented) An assembly as set forth in claim 23, further including a support member extending at least between said roof panels and providing an abutment surface for receiving said side wall cladding panels thereby retaining said side wall cladding panels to said assembly.

31. (Previously Presented) An assembly as set forth in claim 23, including roof cladding panels overlaying said roof at a spaced location thereby defining a space for receiving thermal insulating material.

Applicant: Roesler
Serial No.: 10/798,099
Page 9 of 14

Atty Docket No. 61,733-143

32. (Previously Presented) An assembly as set forth in claim 23, wherein adjacent of said modules are adjoined by a flexible member thereby enabling said modules to expand and contract.

33. (Previously Presented) An oven assembly for drying paint on a product transported by a conveyor, comprising:

a plurality of modules positioned in a generally abutting relationship, wherein each of said modules includes a roof, side walls, and a floor having a length and a width with said floor formed from abutting floor panels;

a plurality of support members spaced along said length of said floor and having a length greater than said width of said floor with said support members reinforcing said floor;

an inner side wall panel of said side walls disposed in an overlapping relationship with said floor and a side wall cladding panel supported by said support members along said width of said floor thereby concealing thermal insulating material disposed between said inner side wall panel and said side wall cladding panel; and

a channel extending along said length of said floor and supported by said support members to receive said side wall cladding panel thereby retaining said side wall cladding panel to said assembly.

34. (Previously Presented) An assembly as set forth in claim 33, wherein said channel includes a U-shaped configuration.

Applicant: Roesler
Serial No.: 10/798,099
Page 10 of 14

Atty Docket No. 61,733-143

35. (Previously Presented) An assembly as set forth in claim 33, wherein said inner side wall panel includes a flange extending outwardly therefrom at a generally 90 degree angle to define an enclosure and a thermal insulating material disposed therein.

36. (Previously Presented) An assembly as set forth in claim 33, wherein said roof includes roof panels spaced apart and fixedly attached between said side walls thereby supporting said side walls in a space relationship.

37. (Previously Presented) An assembly as set forth in claim 33, further including relief panels disposed between said roof panels and being releasably retained to said roof panels thereby providing explosion relief to said assembly.

38. (Previously Presented) An assembly as set forth in claim 33, further including a radiant wall overlying said floor at a spaced location defining a heated air channel therebetween being fluidly connected to a source of heated air thereby heating said radiant floor.

39. (Previously Presented) An assembly as set forth in claim 33, including an air circulating device defined by air ducts affixed to at least one of said roof and said inner wall panel for providing air to said oven assembly.

40. (Previously Presented) An assembly as set forth in claim 33, further including a support member extending at least between said roof panels and providing an

Applicant: Roesler
Serial No.: 10/798,099
Page 11 of 14

Atty Docket No. 61,733-143

abutment surface for receiving said side wall cladding panels thereby retaining said side wall cladding panels to said assembly.

41. (Previously Presented) An assembly as set forth in claim 33, including roof cladding panels overlaying said roof at a spaced location thereby defining a space for receiving thermal insulating material.

42. (Previously Presented) An assembly as set forth in claim 33, wherein adjacent of said modules are adjoined by a flexible member thereby enabling said modules to expand and contract.

43. (Currently Amended) An oven assembly for drying paint on a product transported by a conveyor, comprising:

a plurality of modules positioned in a generally abutting relationship, wherein each of said modules includes a roof, side walls, and a floor having a length and a width, said roof including roof panels spaced apart and fixedly attached between said side walls thereby supporting said side walls in a spaced relationship and relief panels disposed between said roof panels and being releasably retained to said roof panels thereby providing explosion relief to said assembly;

said floor formed from abutting floor panels reinforced by a plurality of support members spaced along said length of said floor and having a length greater than said width of said floor;

said side walls including an inner side wall panel disposed in an overlapping relationship with said floor and a side wall cladding panel supported by said support members

Applicant: Roesler
Serial No.: 10/798,099
Page 12 of 14

Atty Docket No. 61,733-143

along said width of said floor thereby concealing thermal insulating material disposed between said inner side wall panel and said side wall cladding panel; and

a radiant wall overlying said floor at a spaced location defining a heated air channel therebetween being fluidly connected to a source of heated air thereby heating said radiant floor.

44. (Previously Presented) An oven assembly for drying paint on a product transported by a conveyor, comprising:

a plurality of modules positioned in a generally abutting relationship, wherein each of said modules includes a roof, side walls, and a floor having a length and a width;

said floor formed from abutting floor panels reinforced by a plurality of support members spaced along said length of said floor and having a length greater than said width of said floor;

said side walls including an inner wall panel disposed in an overlapping relationship with said floor and a side wall cladding panel supported by said support members along said width of said floor thereby concealing thermal insulating material disposed between said inner wall panel and said side wall cladding panel; and

air ducts affixed to at least one of said roof and said inner wall panel for providing air to said assembly.